

**Listing of Claims**

1. **(original)** A method of modifying a metallic surface comprising contacting the metallic surface



with an asymmetric monolayer forming species having the formula:

wherein

A is an attachment linker moiety;

MFS is a monolayer forming species; and

AG is an electroconduit forming species.

2. **(original)** A method according to claim 1 further comprising contacting said metallic surface with a biological species having the formula:

A-MFS-capture binding ligand

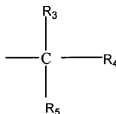
wherein

A is an attachment linker; and

MFS is a monolayer forming species.

3. **(original)** A method according to claim 2 wherein said capture binding ligand is a nucleic acid.
4. **(original)** A method according to claim 2 wherein said capture binding ligand is a n protein.
5. **(original)** A method according to claim 1 wherein A is sulfur.
6. **(original)** A method according to claim 1 wherein said metallic surface is gold.
7. **(original)** A method according to claim 1 wherein said MFS is an insulator.
8. **(original)** A method according to claim 7 wherein said insulator comprises an alkyl group from about 7 to 20 carbons.
9. **(original)** A method according to claim 8 wherein said alkyl group comprises a heteroalkyl.
10. **(original)** A method according to claim 8 wherein said alkyl group comprises a substituted alkyl.

11. **(original)** A method according to claim 1 wherein said AG comprises an alkyl group from about 1 to 6 carbons.
12. **(original)** A method according to claim 1 or 11 wherein said AG is branched, having the formula:



wherein

R<sub>3</sub> through R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, aryl, alcohol, amine, amido, nitro, ether, ester, ketone, imino, aldehyde, alkoxy, carbonyl, halogen, sulfur containing moiety and phosphorus containing moiety;

13. **(original)** A method according to claim 12 wherein said AG is attached to said attachment linker via a (CH<sub>2</sub>)<sub>n</sub> group, wherein n is an integer from 0 to 4.
14. **(original)** A method according to claim 12 wherein said AG is attached directly to said attachment linker.